Geospatial Intelligence Standards Working Group

The Geospatial Intelligence Standards Working Group **-GWG-**

For more information, contact the GWG Secretariat at NCGIS-mail@nga.mil

http://www.gwg.nga.mil

GWG
Inaugurated January 2005

Working as a Community:

- Participatory governance – ***the community forum*** for all standardization activities & functions related to GEOINT
- Bring ***subject matter experts*** together within the DoD and IC to fully address GEOINT standards matters
- Enhance our ability to ***manage and share GEOINT data*** among disparate groups

Functions & Responsibilities

- GWG is responsible for:
  - Serving as the ***community forum*** for all standardization activities and functions related to Geospatial Intelligence (GEOINT)
  - Coordinating population of the DoD IT Standards Registry (DISR) with GEOINT standards
- Chaired by NGA/NCGIS, the GWG assists the Director, NGA in carrying out responsibilities as Functional Manager for GEOINT standards:
  - Sustaining a viable standardization program
  - Prescribing and mandating GEOINT standards
  - Representing the NSG community
  - Pursuing standards that enhance ability to manage and preserve the integrity of GEOINT data

Members

- Core and Associate GWG Members & Participants
  - NGA
  - Combatant Commands
  - Military Services
  - DoD Agencies
  - Intelligence Community Agencies
  - Other Federal Agencies
  - Coalition Partners
  - Standards Development Organizations
  - GIS Industry

Standards Governance – DISR/ICSR

DoD IT Standards Registry (DISR)

- A single, unifying DoD registry for approved standards citations and a registry for approved DoD IT standards profiles
- DISR Mandated Standards – the minimum set of essential standards for the acquisition of all DoD systems that produce, use or exchange information and, when implemented, facilitate the flow of information in support of the warfighter
- New/modified systems throughout the DoD are required to include all applicable DISR mandated standards in baseline (TV-1)

IC Standards Registry (ICSR) & IC-500-20

- Draft IC Standard (ICS) **-** Defines the IC framework for:
  - Adoption of IC enterprise standards best-suited for achieving the DNI's goals of interoperability and information sharing
  - Management of an IC Enterprise Standards Baseline consisting of a minimal, focused, coordinated set of such standards
  - Compliance and compliance certification of those portions of IC systems and EA-related information technology items funded through the NIP
  - Community review and concurrence complete
  - IC CIO signature pending

Interoperability Requirements

- ***Open standards*** between mission systems
- ***Metadata*** to enable users to integrate data from multiple sources, formats, and organizations; and permits automatic processing of data
- ***Tools*** that allow for the collection and population of quality information to answer intelligence and operational questions
- ***Harmonization*** among standards bodies to help further their common goals

GWG Focus Groups

- **NITFS Technical Board (NTB)**
- **Motion Imagery Standards Board (MISB)**
- **Community Sensor Model Working Group (CSMWG**
- **Geographic Portrayal (PFG)**
- **Application Schemas for Feature Encoding (ASFE)**
- **Metadata (MFG)**
- **Information Transfer and Services Architecture (ITSA)**
- **Overhead Persistent Infrared (OFG)**

Focus Groups are the ***primary mechanism for Community engagement*** with subject-matter-experts (SMEs)

GWG Focus Group Functions

- **Serve as the NSG community forum** for issues relating to a particular GEOINT standards area
- **Report to and advise the GWG** on standardization issues related to that area
- **Make recommendations to the GWG** on candidate DISR standards for GEOINT

NITFS Technical Board (NTB)

The National Imagery Transmission Format Standard (NITFS) Technical Board (NTB) is the technical focal point for still imagery, and still imagery-related standardization activities across the NSG.

The NTB:

- Facilitates the selection, development, adoption, implementation, and testing of standards that are essential to the interoperability and quality of still imagery
- Addresses standards issues related to still imagery and gridded data, data compression, product annotation, support data, metadata, and quality

Visit the NTB website at: http://www.gwg.nga.mil/ntb/index.html
Self-register for the NTB email reflector list: http://ismc.nga.mil/ntb/

Visit the NTB website at: http://www.gwg.nga.mil/ntb/index.html

Contact the NTB Chair: ntbchair@nga.mil

Motion Imagery Standards Board (MISB)

The Motion Imagery Standards Board (MISB) is the technical focal point for establishing motion imagery interoperability standards across the NSG.

The MISB:

- Formulates, reviews, and recommends standards, recommended practices, and engineering guidelines for motion imagery, video, associated metadata, audio, and other related systems
- Promotes world-wide interoperability based largely on open, international, commercial standards to leverage large commercial R&D investments
- Leads the Motion Imagery community and Manages the Motion Imagery Domain Space to deliver universally interoperable, superior quality, cost manageable motion imagery systems to our warfighters / decision makers

Visit the MISB website at: http://www.gwg.nga.mil/misb/index.html

Contact the MISB Chair: misbchair@nga.mil

Community Sensor Model Working Group (CSMWG)

The Community Sensor Model Working Group (CSMWG) establishes standards for interoperable sensor models that enable the efficient collection and distribution of GEOINT source data.

The CSMWG:

- Develops, verifies, validates, maintains and conducts configuration management of sensor model standards
- Collects and maintains community technical requirements for sensor data

Visit the CSMWG website at: http://csmwg.seicorp.com

Contact the CSMWG Chair: csmwgchair@nga.mil

Overhead Persistent Infrared (OFG)

The Overhead Persistent Infrared (OPIR) Focus Group works issues across functional domains concerning OPIR data and metadata standards development in support of fostering net-centric data services.

The OFG is Co-chaired by the National Geospatial-Intelligence Agency (NGA) in concert with the United States Strategic Command's Joint Functional Component Commander for Space, U.S. Air Force Space Command (AFSPC). The OFG was formed to improve support to operations and intelligence by exposing OPIR data in a net-centric SOA

For additional information visit the OFG Intelipedia site

https://www.intelink.gov/wiki/ONIR_Focus_Group

Portrayal (PFG)

The Portrayal Focus Group (PFG) facilitates the development, implementation, and interoperability of standards relating to the visual depiction of physical features and geographically referenced activities.

The PFG:

- Addresses visual symbolization of GEOINT and symbol design for both digital display and hardcopy media
- Coordinates symbology requirements and develops and populates standards registries for GEOINT

Visit the PFG website at: http://www.gwg.nga.mil/focus_groups/pfg/index.html

Contact the PFG Chair: pfgchair@nga.mil

Application Schemas for Feature Encoding (ASFE)

The Application Schemas for Feature Encoding Focus Group (ASSFE) addresses standards related to the encoding of features used in the production of GEOINT and GEOINT products.

The ASFE:

– Develops GEOINT product specifications, standards for electronic feature catalogues, and conceptual schemas for data required by one or more applications

– Provides support to logistics and network analysis

Visit the ASFE website at: http://www.gwg.nga.mil/focus_groups/asfe/index.html

Contact the ASFE Chair: asfechair@nga.mil

Metadata (MFG)

The Metadata Focus Group (MFG) is dedicated to coordinating and harmonizing GEOINT metadata standards activities to advance data interoperabilty across the NSG.

The MFG:

- Supports development of a Core GEOINT metadata standard, CORE extensions that support specialized GEOINT areas, and schemas for the exchange and storage of GEOINT metadata
- Participates in metadata standards forums within the Intelligence Community, Department of Defense, and other U.S. and International Standards bodies, such as ISO TC211, to ensure NSG metadata requirements are addressed

Visit the MFG website at: http://www.gwg.nga.mil/focus_groups/mfg/index.html

Contact the MFG Chair: mfgchair@nga.mil

Information Transfer and Service Architecture (ITSA)

The Information and Transfer Service Architecture (ITSA) Focus Group addresses “data services” needed to support GEOINT in a distributed, real-time environment.

The ITSA Focus Group:

- Identifies requirements for standards and services needed to support network transfer, such as metadata standards and web and catalog services
- Evaluates emerging service architecture components and technologies

Visit the ITSA website at: http://www.gwg.nga.mil/focus_groups/itsa/index.html

Contact the ITSA Chair: itsachair@nga.mil

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